DATA SHEET

Three Phase Induction Motor - Squirrel Cage



Customer :

Product line : NEMA Premium Efficiency Three- Product code : 11432056

Phase

Catalog #: 02012ST3QIE286T-W22

Frame : 284/6T Cooling method : IC411 - TEFC

Insulation class : F Mounting : F-1

Duty cycle : Cont.(S1) Rotation¹ : Both (CW and CCW)

Ambient temperature : -20°C to +40°C Starting method : Direct On Line

Altitude : 1000 m.a.s.l. Approx. weight³ : 440 lb

Protection degree		: IP55		Momer	nt of inertia (J)	: 9	.16 sq.ft.lb	
Design		: B						
Output [HP]		20	15	15	15	20	20	20
Poles		6	6	6	6	6	6	6
Frequency [Hz]		60	50	50	50	50	50	50
Rated voltage [V]		460	380	400	415	380	400	415
Rated current [A]		24.2	21.8	21.2	21.3	29.6	28.1	27.2
L. R. Amperes [A]		143	129	140	149	130	141	147
LRC [A]		5.9x(Code	5.9x(Code	6.6x(Code H)	7.0x(Code J)	4.4x(Code D)	5.0x(Code E)	5.4x(Code F
		G)	G)					
No load current [A		8.30	8.20	8.80	9.40	8.20	8.80	9.40
Rated speed [RPN	/ []	1175	975	975	980	965	970	975
Slip [%]		2.08	2.50	2.50	2.00	3.50	3.00	2.50
Rated torque [ft.lb]		89.4	80.8	80.8	80.4	109	108	108
Locked rotor torqu	e [%]	220	220	260	270	160	190	200
Breakdown torque	[%]	250	260	280	310	190	210	229
Service factor		1.25	1.00	1.15	1.15	1.00	1.15	1.15
Temperature rise		80 K	80 K	80 K	80 K	105 K	105 K	105 K
Locked rotor time		28s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)	21s (cold)
		16s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)	12s (hot)
Noise level ²		59.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)	56.0 dB(A)
	25%							
Efficiency (9/)	50%	91.0	90.0	89.3	89.3	90.2	90.2	90.2
Efficiency (%)	75%	91.7	90.3	90.3	90.6	90.2	90.2	91.0
100%		91.7	90.3	90.3	90.8	88.5	89.5	90.2
25%								
Dower Factor	50%	0.70	0.66	0.63	0.60	0.76	0.73	0.70
Power Factor	75%	0.80	0.79	0.76	0.73	0.84	0.82	0.80
	100%	0.85	0.85	0.83	0.81	0.87	0.86	0.85

Lubrication interval:20000 h20000 hLubricant amount:18 g11 gLubricant type:Mobil Polyrex EM

Notes

This revision replaces and cancel the previous one, which must be eliminated.

- (1) Looking the motor from the shaft end.
- (2) Measured at 1m and with tolerance of +3dB(A).
- (3) Approximate weight subject to changes after manufacturing process.
- (4) At 100% of full load.

These are average values based on tests with sinusoidal power supply, subject to the tolerances stipulated in NEMA MG-1.

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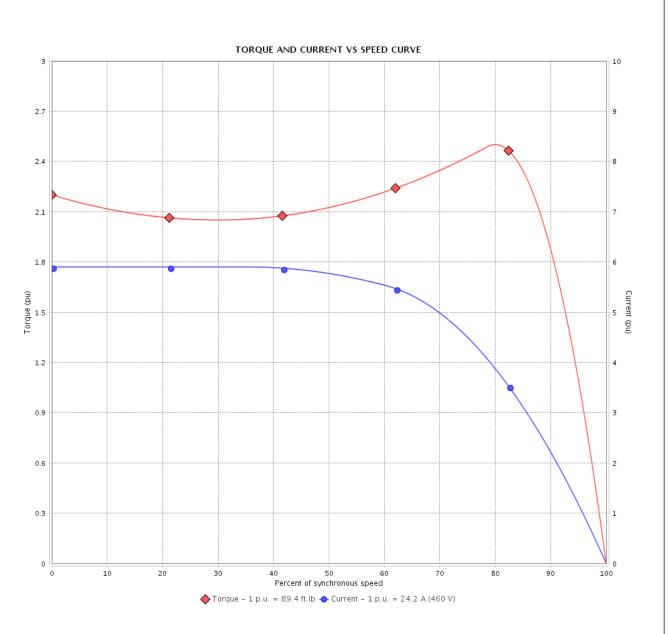
Customer :

Product line : NEMA Premium Efficiency Three- Product code :

Phase

Catalog #: 02012ST3QIE286T-W22

11432056



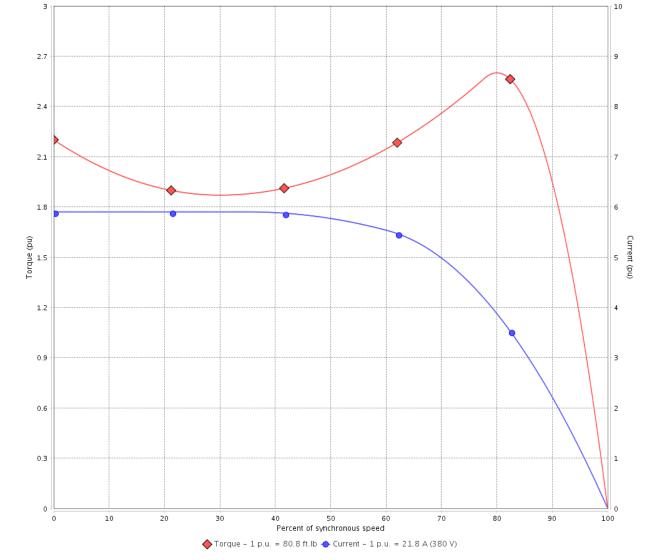
Performance	: 460 V 60 Hz 6P			
Rated current LRC Rated torque Locked rotor torque Breakdown torque	: 24.2 A : 5.9 : 89.4 ft.lb : 220 % : 250 %	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K	
Rated speed	: 1175 rpm	Design	: B	
Locked rotor time	: 28s (cold) 16s (hot)			

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Three Phase Induction Motor - Squirrel Cage



Customer Product line : NEMA Premium Efficiency Three-Product code: 11432056 Catalog #: 02012ST3QIE286T-W22 TORQUE AND CURRENT VS SPEED CURVE



Performance : 380 V 50 Hz 6P IE3 Rated current : 21.8 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) Insulation class Rated torque : 80.8 ft.lb : F : 220 % Locked rotor torque Service factor : 1.00 Breakdown torque : 260 % Temperature rise : 80 K : B Rated speed : 975 rpm Design

Locked rotor time : 21s (cold) 12s (hot)

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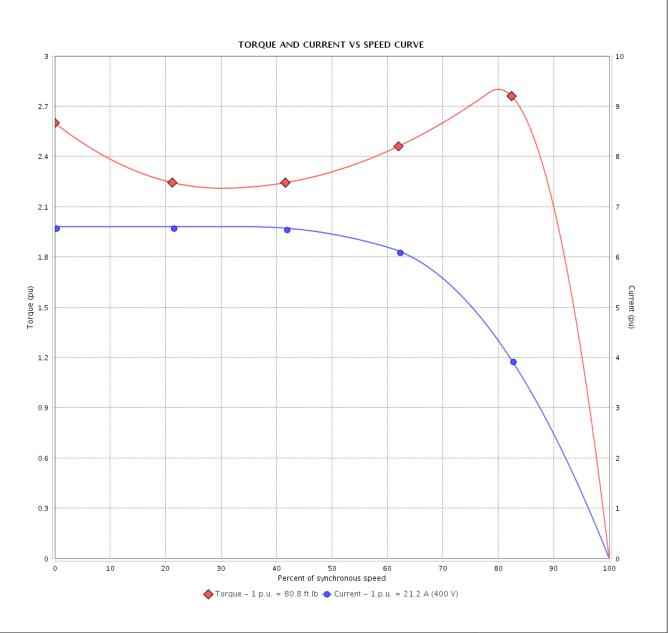
Customer :

Product line : NEMA Premium Efficiency Three- F

Phase

Product code: 11432056

Catalog #: 02012ST3QIE286T-W22



Performance	: 400 V 50 Hz 6P IE3		
Rated current LRC	: 21.2 A : 6.6	Moment of inertia (J) Duty cycle	: 9.16 sq.ft.lb : Cont.(S1)
Rated torque Locked rotor torque	: 80.8 ft.lb : 260 %	Insulation class Service factor	: F : 1.15
Breakdown torque Rated speed	: 280 % : 975 rpm	Temperature rise Design	: 80 K : B
Locked roter time	: 21s (cold) 12s (hot)	1	

Locked rotor time : 21s (cold) 12s (hot)

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Three Phase Induction Motor - Squirrel Cage Customer Product line : NEMA Premium Efficiency Three-Product code: 11432056 Catalog #: 02012ST3QIE286T-W22 TORQUE AND CURRENT VS SPEED CURVE 4.5 3.5 Torque (pu) Current 0.5 Percent of synchronous speed ◆ Torque - 1 p.u. = 80.4 ft.lb ◆ Current - 1 p.u. = 21.3 A (415 V) Performance : 415 V 50 Hz 6P IE3 Rated current : 21.3 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 7.0 Duty cycle : Cont.(S1) : 80.4 ft.lb Insulation class Rated torque : F : 270 % Locked rotor torque Service factor : 1.15 Breakdown torque : 310 % Temperature rise : 80 K Rated speed : 980 rpm Design : B Locked rotor time : 21s (cold) 12s (hot) Date Rev. Performed Checked **Changes Summary**

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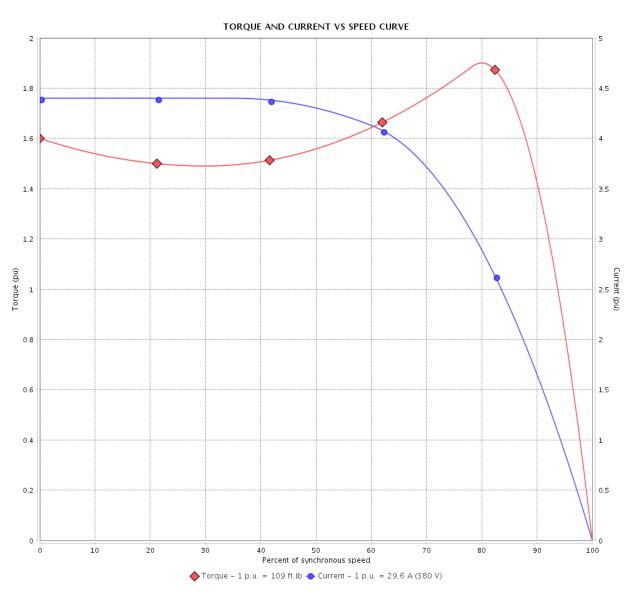
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11432056

Catalog #: 02012ST3QIE286T-W22



Performance	: 380 V 50 Hz 6P IE1			
Rated current	: 29.6 A	Moment of inertia (J)	: 9.16 sq.ft.lb	
LRC	: 4.4	Duty cycle	: Cont.(S1)	
Rated torque	: 109 ft.lb	Insulation class	: F	
Locked rotor torque	: 160 %	Service factor	: 1.00	
Breakdown torque	: 190 %	Temperature rise	: 105 K	
Rated speed	: 965 rpm	Design	: B	
Locked rotor time	: 21s (cold) 12s (hot)	I		

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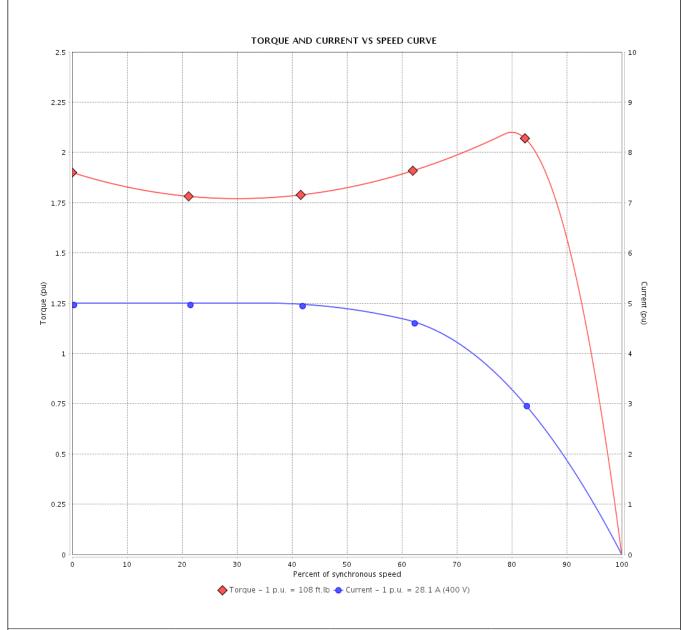
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11432056

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Performance	: 400 V 50 Hz 6P IE1		
Rated current	: 28.1 A	Moment of inertia (J)	: 9.16 sq.ft.lb
LRC	: 5.0	Duty cycle	: Cont.(S1)
Rated torque	: 108 ft.lb	Insulation class	:F
Locked rotor torque	: 190 %	Service factor	: 1.15
Breakdown torque	: 210 %	Temperature rise	: 105 K
Rated speed	: 970 rpm	Design	: B
Looked reter time	: 21a (aald) 12a (bat)		

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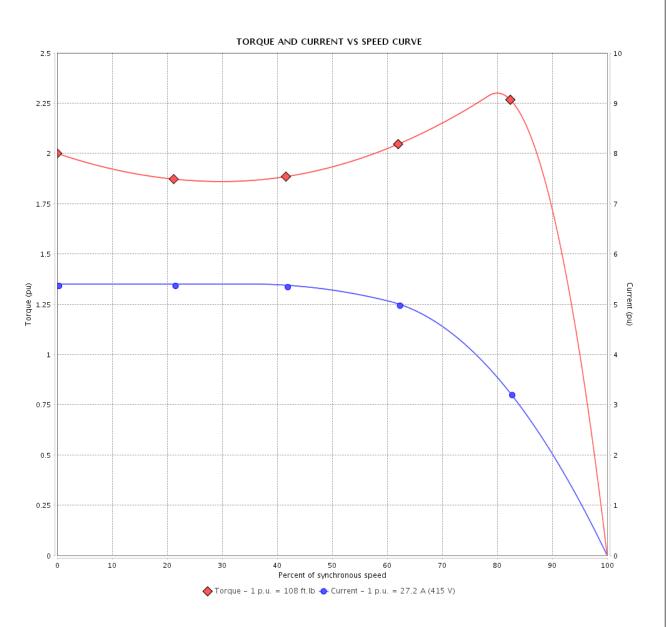


Customer

Product line : NEMA Premium Efficiency Three-

Product code: 11432056

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Performance : 415 V 50 Hz 6P IE2 Rated current : 27.2 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) : 108 ft.lb Insulation class Rated torque : F Service factor Locked rotor torque : 200 % : 1.15 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 975 rpm Design : B Locked rotor time

: 21s (cold) 12s (hot)

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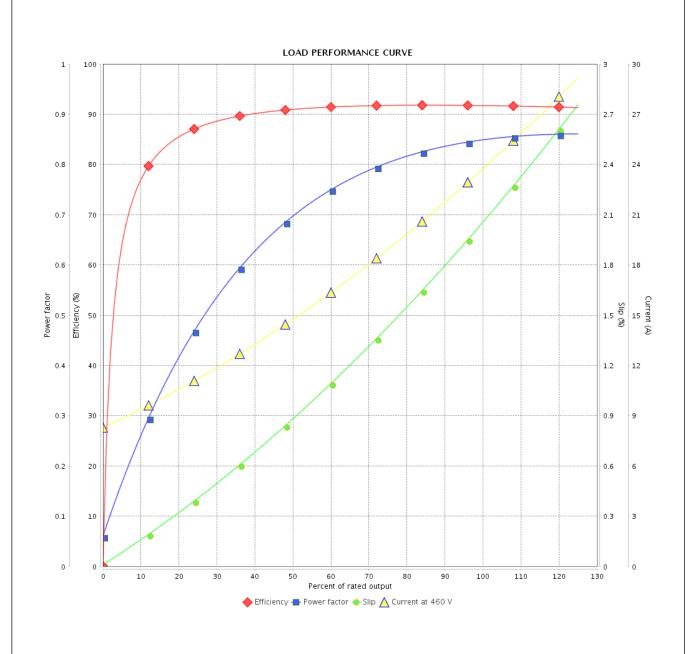
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Product line : NEMA Premium Efficiency Three- Product code : 11432056

Phase

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Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	RC : 5.9 Dual control of the contro		of inertia (J) e class actor ure rise	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.25 : 80 K : B	
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Phase

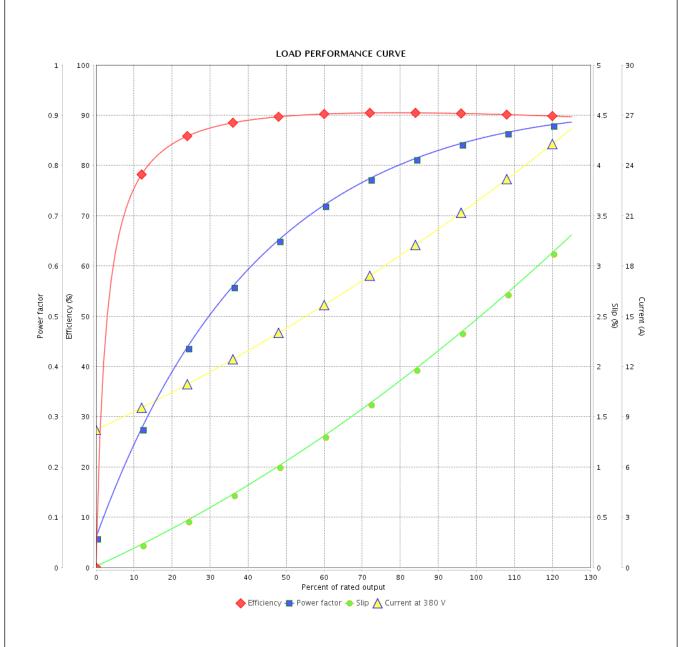
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Performance		: 380 V 50 Hz 6P	IE3			
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed		: 21.8 A : 5.9 : 80.8 ft.lb : 220 % : 260 % : 975 rpm	Moment of inertia (J) : 9.16 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.00 Temperature rise : 80 K Design : B			
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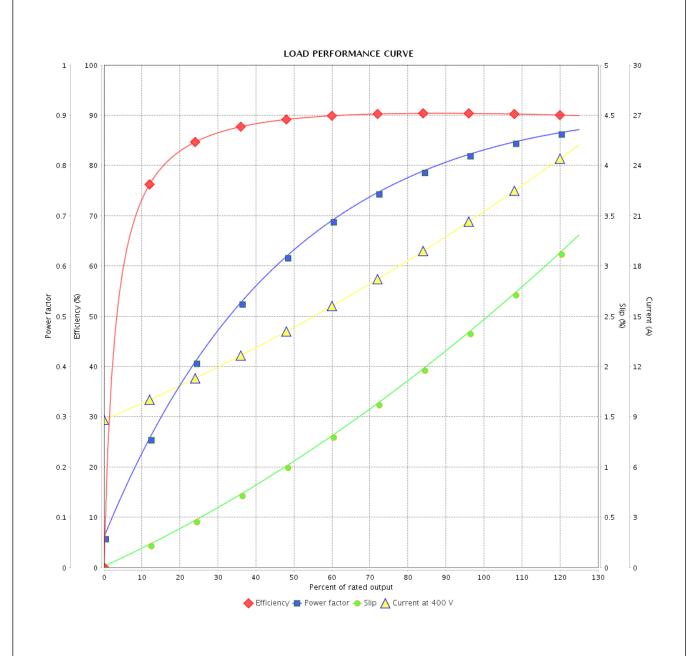
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Performance	: 400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.2 A : 6.6 : 80.8 ft.lb : 260 % : 280 % : 975 rpm	Moment of inertia (J) : 9.16 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 80 K Design : B			
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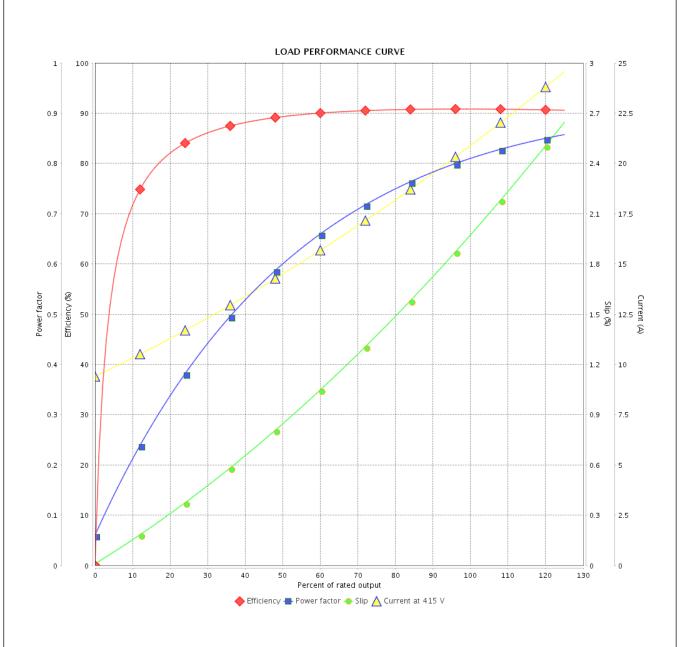
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Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.3 A : 7.0 : 80.4 ft.lb : 270 % : 310 % : 980 rpm	Moment of inertia (J) : 9.16 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 80 K Design : B		: Cont.(S1) : F : 1.15 : 80 K	
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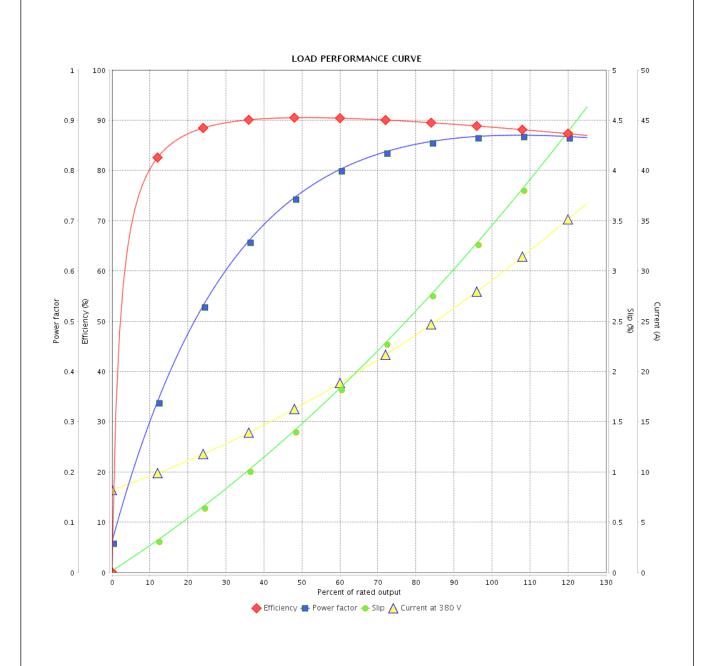
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Customer

Product line : NEMA Premium Efficiency Three-Product code: 11432056

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Performance : 380 V 50 Hz 6P IE1			<u> </u>			
Rated current		29.6 A	Moment o	f inertia (J)	: 9.16 sq.ft.lb	
LRC	: 4	4.4	Duty cycle)	: Cont.(S1)	
Rated torque	:	109 ft.lb	Insulation	class	: F	
Locked rotor tord	que :	160 %	Service fa	ctor	: 1.00	
Breakdown torqu	ie :	190 %	7.5		: 105 K	
Rated speed	: 9	965 rpm			: B	
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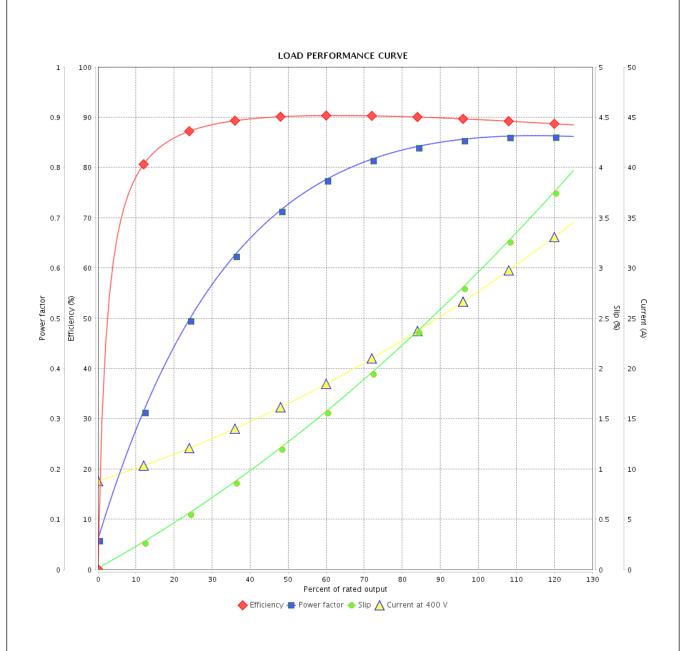
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Phase

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Performance				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 400 V 50 Hz 6P IE1 : 28.1 A : 5.0 : 108 ft.lb : 190 % : 210 % : 970 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.15 : 105 K : B	
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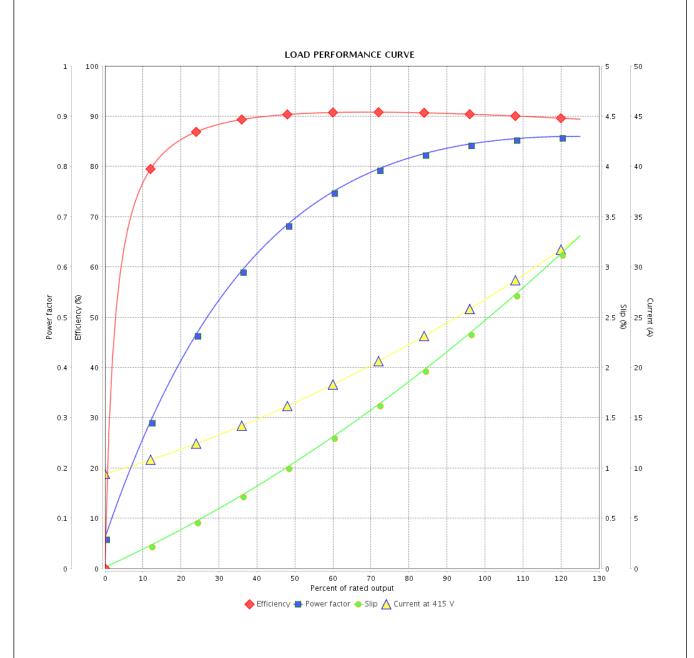
Customer

Product line : NEMA Premium Efficiency Three- Product code : 11432056

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Performance	: 415 V 50 Hz 6P IE2				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 27.2 A : 5.4 : 108 ft.lb : 200 % : 229 % : 975 rpm	Moment of inertia (J) : 9.16 sq.ft.lb Duty cycle : Cont.(S1) Insulation class : F Service factor : 1.15 Temperature rise : 105 K Design : B			
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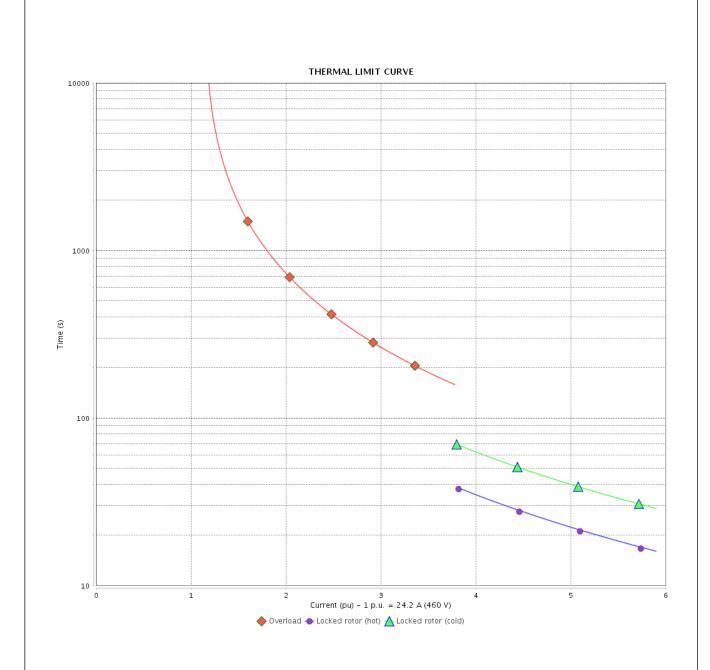


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Product line	: NEMA Premium Efficiency Phase		Product code : Catalog # :	11432056 02012ST3QIE	286T-W22
Performance	: 460 V 60 Hz 6P				
Rated current LRC Rated torque	: 24.2 A : 5.9 : 89.4 ft.lb	Duty cycle Insulation	class	: 9.16 sq.ft.lb : Cont.(S1) : F	
Locked rotor torque Breakdown torque Rated speed	: 220 % : 250 % : 1175 rpm	Service fa Temperatu Design		: 1.25 : 80 K : B	
Heating constant					
Cooling constant Rev.	Changes Summary		Performed	Checked	Date
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Three Phase Induction Motor - Squirrel Cage



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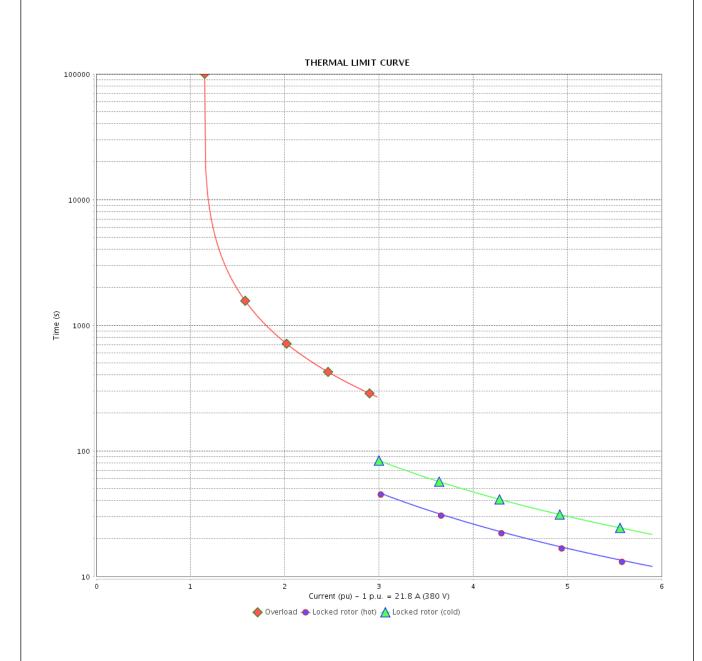


Customer	:				_	
Product line		NEMA Premium Efficiency hase		Product code :	11432056 02012ST3QIE	286T-W22
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 2 ² : 5. : 80 ue : 2 ² e : 2 ⁶ : 9 ⁷	30 V 50 Hz 6P IE3 1.8 A 9 0.8 ft.lb 20 % 60 % 75 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.00 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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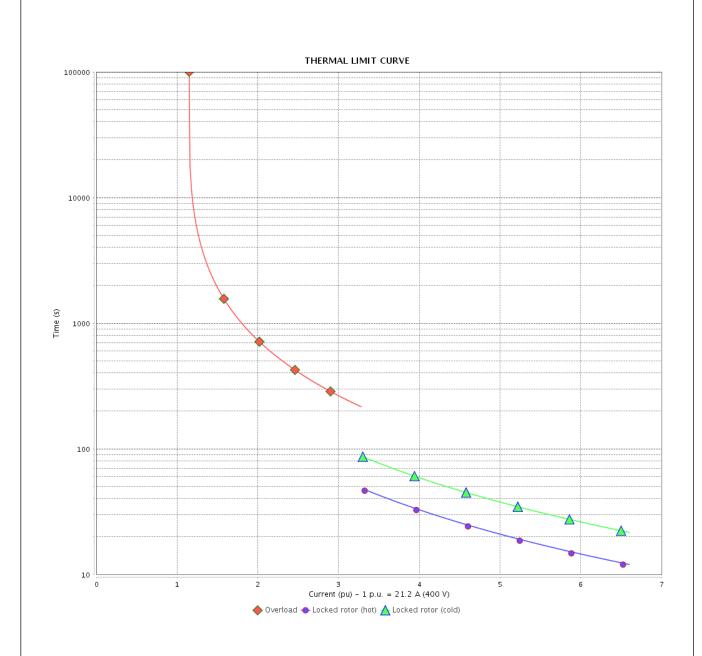


Customer		:				
Product line		: NEMA Premium Efficiency Phase		Product code : Catalog # :	11432056 02012ST3QIE	:286T W/22
				- Catalog # :	02012010012	.2001 7722
Performance		: 400 V 50 Hz 6P IE3				
Rated current LRC		: 21.2 A : 6.6	Moment of	of inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque		: 80.8 ft.lb	Insulation	class	: F	
Locked rotor tord Breakdown torqu		: 260 % : 280 %	Service fa Temperat		: 1.15 : 80 K	
Rated speed		: 975 rpm	Design		: B	
Heating constan						
Cooling constant	t 	Changes Summary		Performed	Checked	Date
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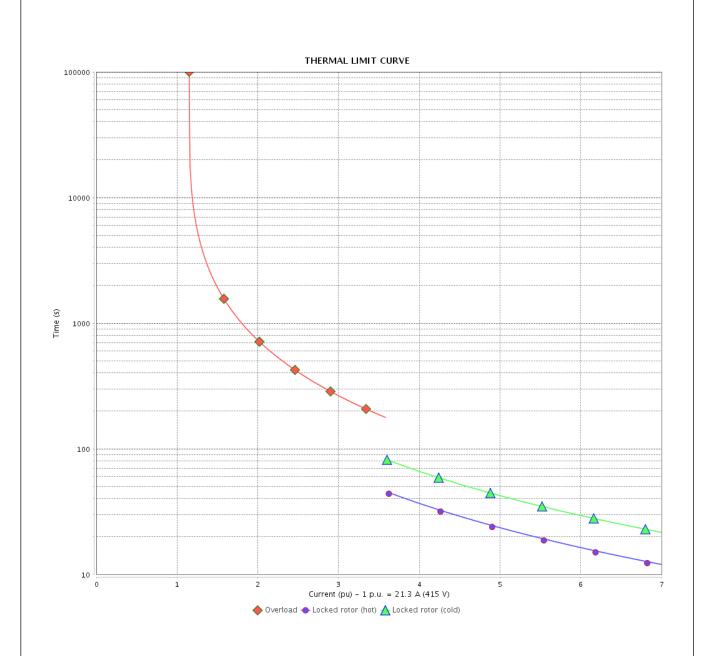


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Product line		NEMA Premium Efficiency hase		Product code :	11432056 02012ST3QIE	:286T-W22
Performance Rated current LRC Rated torque Locked rotor torq Breakdown torqu Rated speed	: 2 ² : 7. : 80 ue : 2 ⁷ e : 3 ³	15 V 50 Hz 6P IE3 1.3 A 0 0.4 ft.lb 70 % 10 % 80 rpm	Moment of Duty cycle Insulation Service fac Temperatu Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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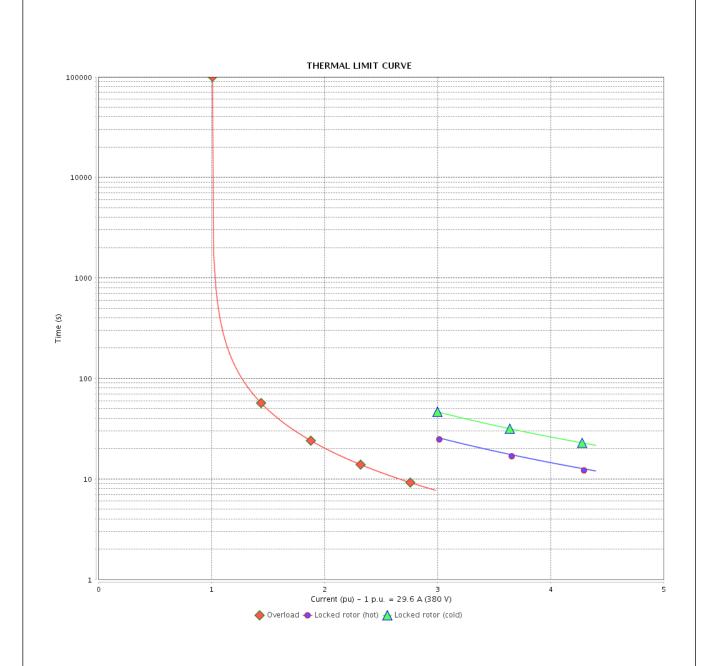


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Product line		NEMA Premium Efficiency	Three-	Product code :	11432056	
	P	hase	(Catalog # :	02012ST3QIE	286T-W22
Performance		30 V 50 Hz 6P IE1				
Rated current LRC	: 29 : 4.	9.6 A 4	Moment of Duty cycle	f inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque	: 10	09 ft.lb	Insulation	class	: F	
Locked rotor torq Breakdown torqu		60 % 90 %	Service far Temperatu		: 1.00 : 105 K	
Rated speed		50 70 65 rpm	Design		: B	
Heating constant						
Cooling constant						
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Three Phase Induction Motor - Squirrel Cage



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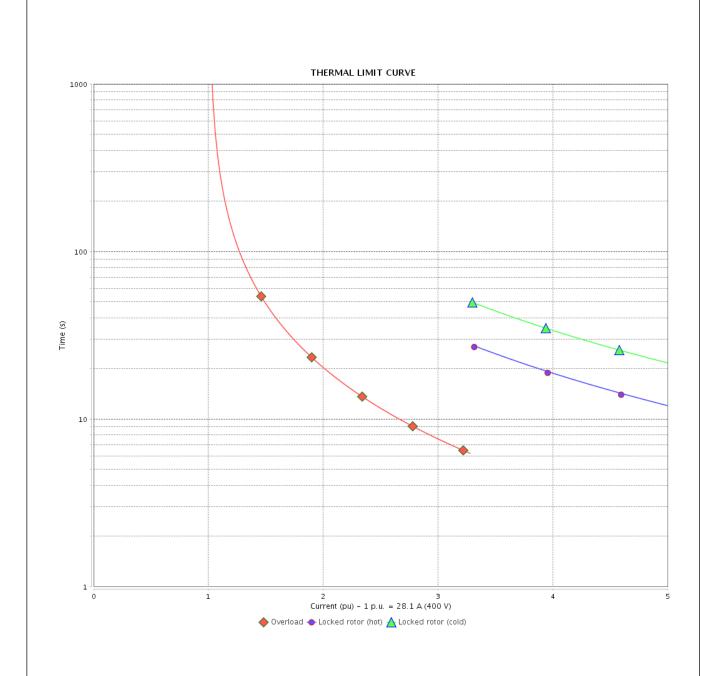


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Product line		NEMA Premium Efficiency hase		Product code :	11432056 02012ST3QIE	:286T-W22
Performance Rated current LRC		00 V 50 Hz 6P IE1 3.1 A 0	Moment o	inertia (J)	: 9.16 sq.ft.lb : Cont.(S1)	
Rated torque Locked rotor torqu Breakdown torque Rated speed	: 10 e : 19 : 21	08 ft.lb 90 % 10 % 70 rpm	Insulation Service far Temperatu Design	class ctor	: F : 1.15 : 105 K : B	
Heating constant Cooling constant Rev.		Changes Summary		Performed	Checked	Date
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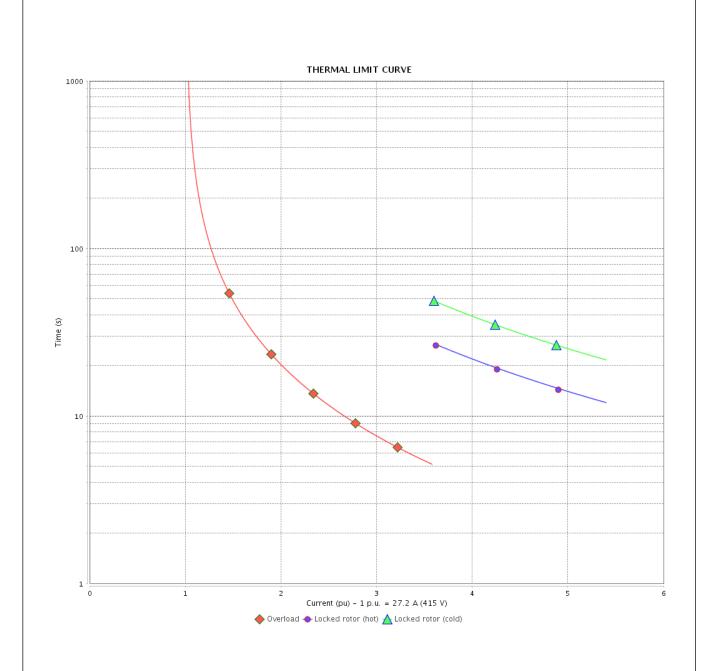


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Product line		: NEMA Premium Efficiency Phase		Product code :	11432056	COOCT MACO
				Catalog # :	02012ST3QIE	2001-0022
Performance		: 415 V 50 Hz 6P IE2				
Rated current		: 27.2 A	Moment o	of inertia (J)	: 9.16 sq.ft.lb	
LRC Rated torque		: 5.4 : 108 ft.lb	Duty cycle Insulation	Э	: Cont.(S1) : F	
Locked rotor torq	lue	: 200 %	Service fa	actor	: 1.15	
Breakdown torqui Rated speed	ie	: 229 % : 975 rpm	Temperati Design	ure rise	: 105 K : B	
Heating constant		. 0.0 ipiii	Doolgii		. 5	
Cooling constant						
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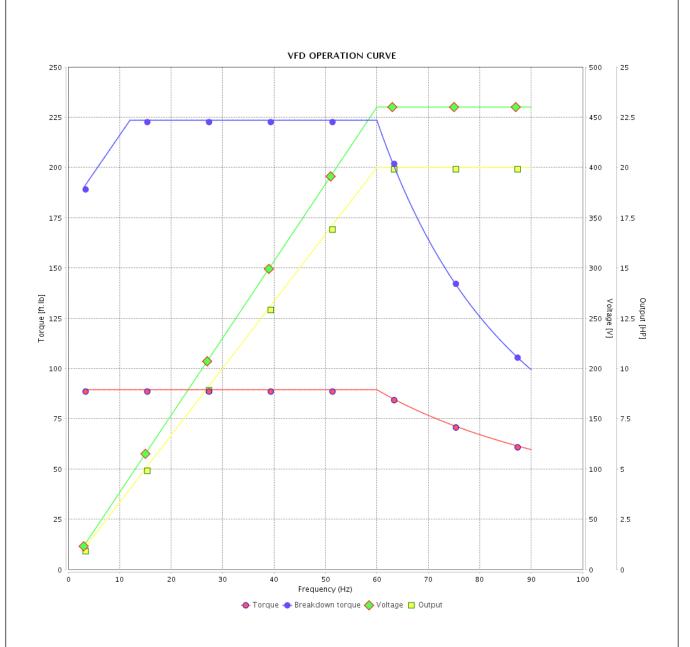
Customer :

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11432056

Catalog #: 02012ST3QIE286T-W22



Performance : 460 V 60 Hz 6P Rated current : 24.2 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.9 Duty cycle : Cont.(S1) : 89.4 ft.lb Insulation class : F Rated torque Locked rotor torque : 220 % Service factor : 1.25 Breakdown torque : 250 % Temperature rise : 80 K Rated speed : 1175 rpm Design : B Rev. Performed Checked Date **Changes Summary**

Three Phase Induction Motor - Squirrel Cage



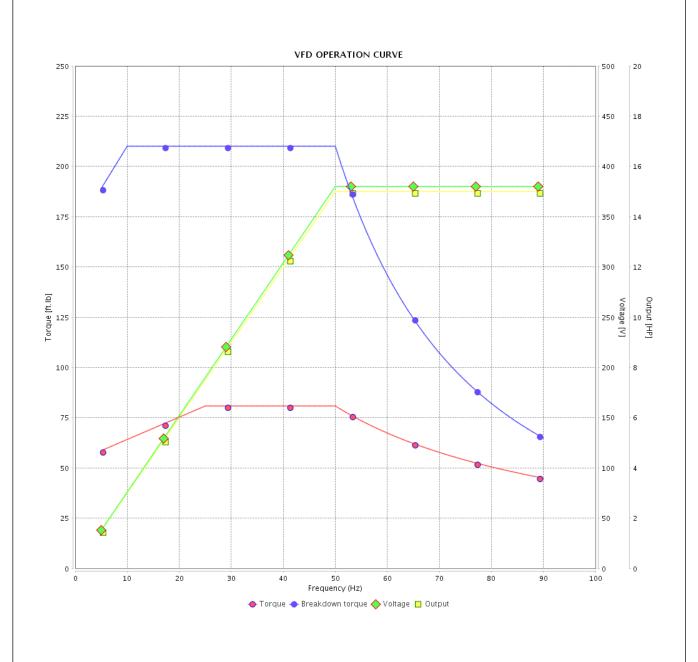
Customer

Product line : NEMA Premium Efficiency Three-

Phase

Product code: 11432056

Catalog #: 02012ST3QIE286T-W22



Performance	: 3	: 380 V 50 Hz 6P IE3					
Rated current	: 21.8 A		Moment o	f inertia (J)	: 9.16 sq.ft.lb		
LRC	: 5	.9	Duty cycle)	: Cont.(S1)		
Rated torque	: 8	0.8 ft.lb	Insulation	class	: F		
Locked rotor torque	e : 2	20 %	Service factor		: 1.00		
Breakdown torque		60 %	Temperati	Temperature rise		: 80 K	
Rated speed	: 9	75 rpm	Design		: B		
Rev.		Changes Summary	1	Performed	Checked	Date	
Performed by							
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Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

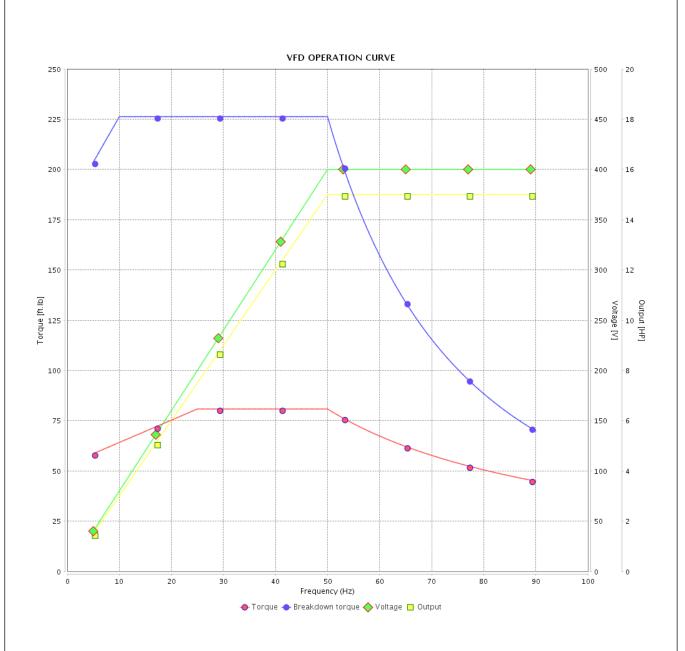
Product code: 11432056

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Performance	:	400 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor tord Breakdown torqu Rated speed	: : : : : : : :	21.2 A 6.6 80.8 ft.lb 260 % 280 % 975 rpm	Moment of Duty cycle Insulation Service fa Temperat Design	class ctor	: 9.16 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.		Changes Summary		Performed	Checked	Date
Performed by						

Three Phase Induction Motor - Squirrel Cage



Customer

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Product

Phase

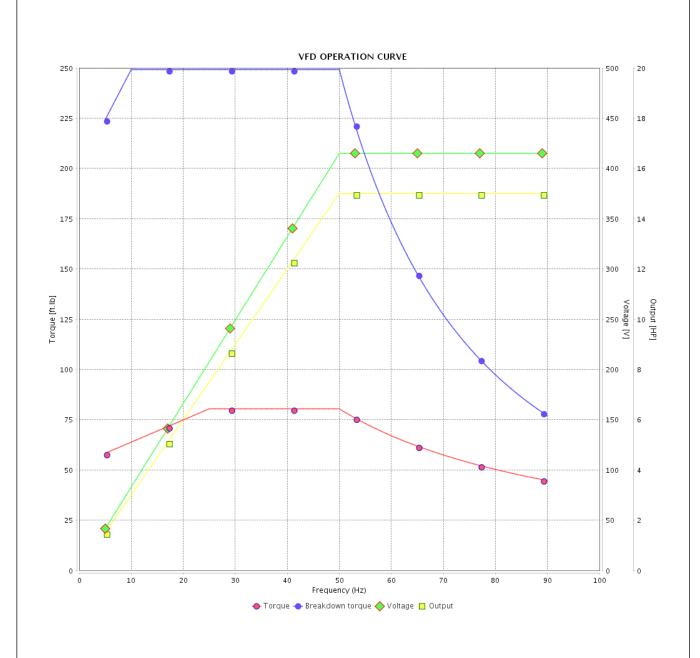
Product code: 11432056

Catalog #: 02012ST3QIE286T-W22

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Revision



Performance	: 415 V 50 Hz 6P IE3				
Rated current LRC Rated torque Locked rotor torque Breakdown torque Rated speed	: 21.3 A : 7.0 : 80.4 ft.lb : 270 % : 310 % : 980 rpm	Moment of inertia (J) Duty cycle Insulation class Service factor Temperature rise Design		: 9.16 sq.ft.lb : Cont.(S1) : F : 1.15 : 80 K : B	
Rev.	Changes Summary		Performed	Checked	Date
Performed by					

Three Phase Induction Motor - Squirrel Cage



Customer :

Checked by

Date

14/04/2022

Product line : NEMA Premium Efficiency Three- Produc

Phase

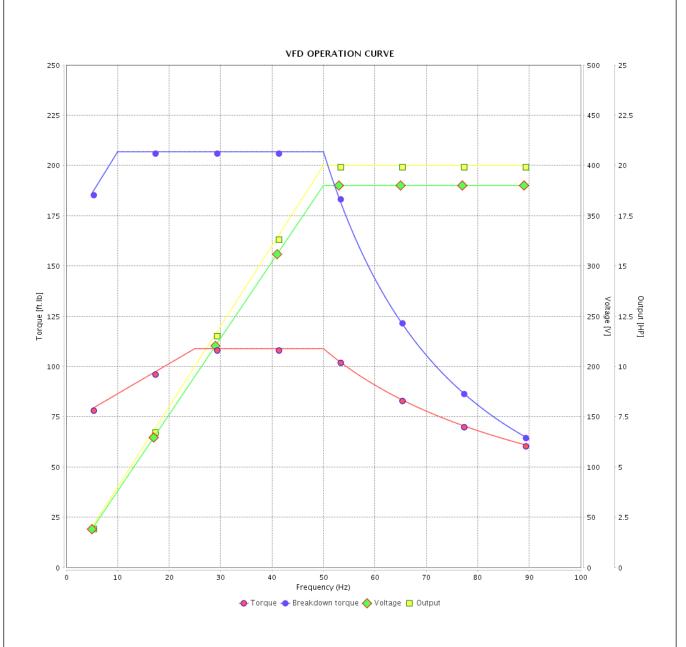
Product code: 11432056

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Performance : 380 V 50 Hz 6P IE1 Rated current : 29.6 A Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 4.4 Duty cycle : Cont.(S1) : 109 ft.lb Insulation class : F Rated torque Locked rotor torque : 160 % Service factor : 1.00 Breakdown torque : 190 % Temperature rise : 105 K Rated speed : 965 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

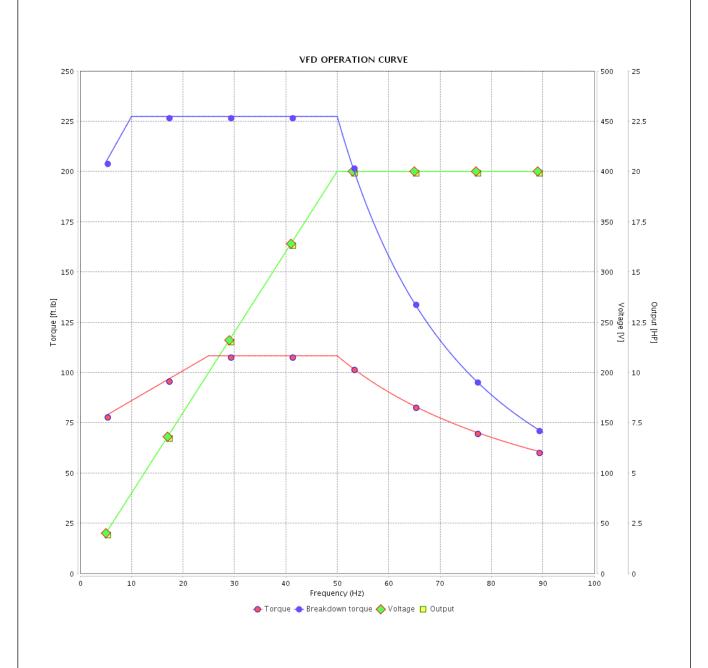
Three Phase Induction Motor - Squirrel Cage



Customer

Product line : NEMA Premium Efficiency Three-Product code: 11432056

02012ST3QIE286T-W22 Catalog #:



Performance	: 4	00 V 50 Hz 6P IE1					
Rated current		8.1 A	Moment o	Moment of inertia (J)			
LRC		.0	Duty cycle)	: Cont.(S1)		
Rated torque	: 1	08 ft.lb	Insulation	class	: F		
Locked rotor tord	que : 1	90 %	Service fa	Service factor		: 1.15	
Breakdown torqu	ıe : 2	10 %	Temperati	Temperature rise Design			
Rated speed	: 9	70 rpm	Design				
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Performed by							
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Three Phase Induction Motor - Squirrel Cage



Customer :

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Date

14/04/2022

Product line : NEMA Premium Efficiency Three-

Phase

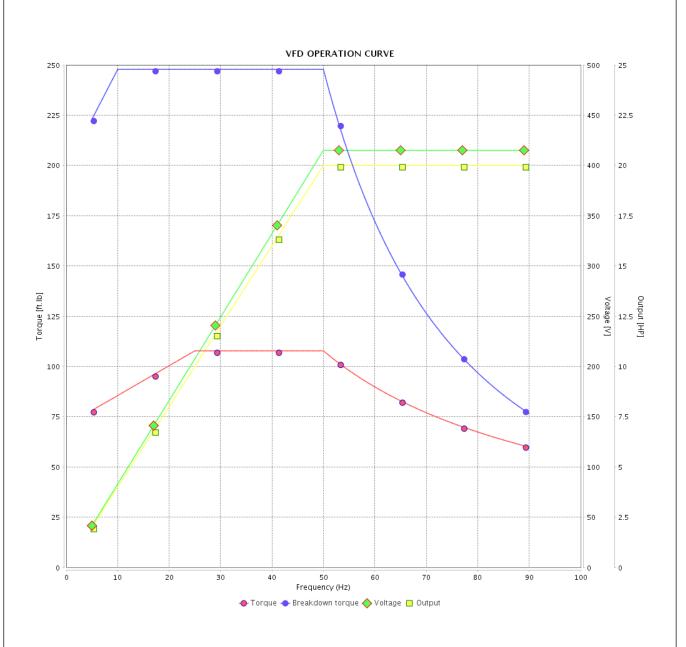
Product code: 11432056

Catalog #: 02012ST3QIE286T-W22

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Revision



Performance : 415 V 50 Hz 6P IE2 : 27.2 A Rated current Moment of inertia (J) : 9.16 sq.ft.lb **LRC** : 5.4 Duty cycle : Cont.(S1) : 108 ft.lb Insulation class : F Rated torque Locked rotor torque : 200 % Service factor : 1.15 Breakdown torque : 229 % Temperature rise : 105 K Rated speed : 975 rpm Design : B Rev. Performed Checked Date **Changes Summary** Performed by

